



SEQUENCE LISTING

<110> Somers, William Stuart
Tang, Jin
Camphausen, Raymond Thomas
Seehra, Jasbir S.

<120> CRYSTAL STRUCTURE OF P-SELECTIN AND
E-SELECTIN COMPLEXES AND USES THEREOF

<130> 16163-004001

<140> US 09/859,722

<141> 2001-05-17

<150> US 60/205,875

<151> 2000-05-19

<160> 5

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 830

<212> PRT

<213> Homo sapiens

<400> 1

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			20					25					30		
Leu	Thr	Asn	Gln	Lys	Glu	Val	Ala	Ala	Trp	Thr	Tyr	His	Tyr	Ser	Thr
		35					40					45			
Lys	Ala	Tyr	Ser	Trp	Asn	Ile	Ser	Arg	Lys	Tyr	Cys	Gln	Asn	Arg	Tyr
	50					55					60				
Thr	Asp	Leu	Val	Ala	Ile	Gln	Asn	Lys	Asn	Glu	Ile	Asp	Tyr	Leu	Asn
65					70					75				80	
Lys	Val	Leu	Pro	Tyr	Tyr	Ser	Ser	Tyr	Tyr	Trp	Ile	Gly	Ile	Arg	Lys
				85					90					95	
Asn	Asn	Lys	Thr	Trp	Thr	Trp	Val	Gly	Thr	Lys	Lys	Ala	Leu	Thr	Asn
			100					105					110		
Glu	Ala	Glu	Asn	Trp	Ala	Asp	Asn	Glu	Pro	Asn	Asn	Lys	Arg	Asn	Asn
		115					120					125			
Glu	Asp	Cys	Val	Glu	Ile	Tyr	Ile	Lys	Ser	Pro	Ser	Ala	Pro	Gly	Lys
	130					135						140			
Trp	Asn	Asp	Glu	His	Cys	Leu	Lys	Lys	Lys	His	Ala	Leu	Cys	Tyr	Thr
145				150						155				160	
Ala	Ser	Cys	Gln	Asp	Met	Ser	Cys	Ser	Lys	Gln	Gly	Glu	Cys	Leu	Glu
			165						170					175	
Thr	Ile	Gly	Asn	Tyr	Thr	Cys	Ser	Cys	Tyr	Pro	Gly	Phe	Tyr	Gly	Pro
			180					185					190		
Glu	Cys	Glu	Tyr	Val	Arg	Glu	Cys	Gly	Glu	Leu	Glu	Leu	Pro	Gln	His
		195					200					205			
Val	Leu	Met	Asn	Cys	Ser	His	Pro	Leu	Gly	Asn	Phe	Ser	Phe	Asn	Ser
	210					215					220				

210		215		220
Gln Cys Ser Phe His Cys Thr Asp Gly Tyr Gln Val Asn Gly Pro Ser				
225		230		240
Lys Leu Glu Cys Leu Ala Ser Gly Ile Trp Thr Asn Lys Pro Pro Gln				
	245		250	255
Cys Leu Ala Ala Gln Cys Pro Pro Leu Lys Ile Pro Glu Arg Gly Asn				
	260		265	270
Met Ile Cys Leu His Ser Ala Lys Ala Phe Gln His Gln Ser Ser Cys				
	275		280	285
Ser Phe Ser Cys Glu Glu Gly Phe Ala Leu Val Gly Pro Glu Val Val				
	290		295	300
Gln Cys Thr Ala Ser Gly Val Trp Thr Ala Pro Ala Pro Val Cys Lys				
305		310		320
Ala Val Gln Cys Gln His Leu Glu Ala Pro Ser Glu Gly Thr Met Asp				
	325		330	335
Cys Val His Pro Leu Thr Ala Phe Ala Tyr Gly Ser Ser Cys Lys Phe				
	340		345	350
Glu Cys Gln Pro Gly Tyr Arg Val Arg Gly Leu Asp Met Leu Arg Cys				
	355		360	365
Ile Asp Ser Gly His Trp Ser Ala Pro Leu Pro Thr Cys Glu Ala Ile				
	370		375	380
Ser Cys Glu Pro Leu Glu Ser Pro Val His Gly Ser Met Asp Cys Ser				
385		390		400
Pro Ser Leu Arg Ala Phe Gln Tyr Asp Thr Asn Cys Ser Phe Arg Cys				
	405		410	415
Ala Glu Gly Phe Met Leu Arg Gly Ala Asp Ile Val Arg Cys Asp Asn				
	420		425	430
Leu Gly Gln Trp Thr Ala Pro Ala Pro Val Cys Gln Ala Leu Gln Cys				
	435		440	445
Gln Asp Leu Pro Val Pro Asn Glu Ala Arg Val Asn Cys Ser His Pro				
	450		455	460
Phe Gly Ala Phe Arg Tyr Gln Ser Val Cys Ser Phe Thr Cys Asn Glu				
465		470		480
Gly Leu Leu Leu Val Gly Ala Ser Val Leu Gln Cys Leu Ala Thr Gly				
	485		490	495
Asn Trp Asn Ser Val Pro Pro Glu Cys Gln Ala Ile Pro Cys Thr Pro				
	500		505	510
Leu Leu Ser Pro Gln Asn Gly Thr Met Thr Cys Val Gln Pro Leu Gly				
	515		520	525
Ser Ser Ser Tyr Lys Ser Thr Cys Gln Phe Ile Cys Asp Glu Gly Tyr				
	530		535	540
Ser Leu Ser Gly Pro Glu Arg Leu Asp Cys Thr Arg Ser Gly Arg Trp				
545		550		560
Thr Asp Ser Pro Pro Met Cys Glu Ala Ile Lys Cys Pro Glu Leu Phe				
	565		570	575
Ala Pro Glu Gln Gly Ser Leu Asp Cys Ser Asp Thr Arg Gly Glu Phe				
	580		585	590
Asn Val Gly Ser Thr Cys His Phe Ser Cys Asn Asn Gly Phe Lys Leu				
	595		600	605
Glu Gly Pro Asn Asn Val Glu Cys Thr Thr Ser Gly Arg Trp Ser Ala				
	610		615	620
Thr Pro Pro Thr Cys Lys Gly Ile Ala Ser Leu Pro Thr Pro Gly Leu				
625		630		640
Gln Cys Pro Ala Leu Thr Thr Pro Gly Gln Gly Thr Met Tyr Cys Arg				
	645		650	655
His His Pro Gly Thr Phe Gly Phe Asn Thr Thr Cys Tyr Phe Gly Cys				
	660		665	670

Asn	Ala	Gly	Phe	Thr	Leu	Ile	Gly	Asp	Ser	Thr	Leu	Ser	Cys	Arg	Pro
	675						680					685			
Ser	Gly	Gln	Trp	Thr	Ala	Val	Thr	Pro	Ala	Cys	Arg	Ala	Val	Lys	Cys
	690						695				700				
Ser	Glu	Leu	His	Val	Asn	Lys	Pro	Ile	Ala	Met	Asn	Cys	Ser	Asn	Leu
705					710					715					720
Trp	Gly	Asn	Phe	Ser	Tyr	Gly	Ser	Ile	Cys	Ser	Phe	His	Cys	Leu	Glu
			725						730					735	
Gly	Gln	Leu	Leu	Asn	Gly	Ser	Ala	Gln	Thr	Ala	Cys	Gln	Glu	Asn	Gly
		740						745					750		
His	Trp	Ser	Thr	Thr	Val	Pro	Thr	Cys	Gln	Ala	Gly	Pro	Leu	Thr	Ile
	755						760					765			
Gln	Glu	Ala	Leu	Thr	Tyr	Phe	Gly	Gly	Ala	Val	Ala	Ser	Thr	Ile	Gly
	770					775					780				
Leu	Ile	Met	Gly	Gly	Thr	Leu	Leu	Ala	Leu	Leu	Arg	Lys	Arg	Phe	Arg
785					790					795					800
Gln	Lys	Asp	Asp	Gly	Lys	Cys	Pro	Leu	Asn	Pro	His	Ser	His	Leu	Gly
			805						810					815	
Thr	Tyr	Gly	Val	Phe	Thr	Asn	Ala	Ala	Phe	Asp	Pro	Ser	Pro		
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<210> 2

<211> 610

<212> PRT

<213> Homo sapiens

<400> 2

Met	Ile	Ala	Ser	Gln	Phe	Leu	Ser	Ala	Leu	Thr	Leu	Val	Leu	Leu	Ile
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Lys	Glu	Ser	Gly	Ala	Trp	Ser	Tyr	Asn	Thr	Ser	Thr	Glu	Ala	Met	Thr
			20					25				30			
Tyr	Asp	Glu	Ala	Ser	Ala	Tyr	Cys	Gln	Gln	Arg	Tyr	Thr	His	Leu	Val
	35						40					45			
Ala	Ile	Gln	Asn	Lys	Glu	Glu	Ile	Glu	Tyr	Leu	Asn	Ser	Ile	Leu	Ser
	50					55					60				
Tyr	Ser	Pro	Ser	Tyr	Tyr	Trp	Ile	Gly	Ile	Arg	Lys	Val	Asn	Asn	Val
65				70						75					80
Trp	Val	Trp	Val	Gly	Thr	Gln	Lys	Pro	Leu	Thr	Glu	Glu	Ala	Lys	Asn
			85						90					95	
Trp	Ala	Pro	Gly	Glu	Pro	Asn	Asn	Arg	Gln	Lys	Asp	Glu	Asp	Cys	Val
		100						105					110		
Glu	Ile	Tyr	Ile	Lys	Arg	Glu	Lys	Asp	Val	Gly	Met	Trp	Asn	Asp	Glu
	115						120					125			
Arg	Cys	Ser	Lys	Lys	Lys	Leu	Ala	Leu	Cys	Tyr	Thr	Ala	Ala	Cys	Thr
	130					135					140				
Asn	Thr	Ser	Cys	Ser	Gly	His	Gly	Glu	Cys	Val	Glu	Thr	Ile	Asn	Asn
145				150						155					160
Tyr	Thr	Cys	Lys	Cys	Asp	Pro	Gly	Phe	Ser	Gly	Leu	Lys	Cys	Glu	Gln
			165						170					175	
Ile	Val	Asn	Cys	Thr	Ala	Leu	Glu	Ser	Pro	Glu	His	Gly	Ser	Leu	Val
		180						185					190		
Cys	Ser	His	Pro	Leu	Gly	Asn	Phe	Ser	Tyr	Asn	Ser	Ser	Cys	Ser	Ile
	195						200						205		
Ser	Cys	Asp	Arg	Gly	Tyr	Leu	Pro	Ser	Ser	Met	Glu	Thr	Met	Gln	Cys
	210					215					220				
Met	Ser	Ser	Gly	Glu	Trp	Ser	Ala	Pro	Ile	Pro	Ala	Cys	Asn	Val	Val

225	Glu	Cys	Asp	Ala	Val	Thr	Asn	Pro	Ala	Asn	Gly	Phe	Val	Glu	Cys	Phe	240
					245					250						255	
	Gln	Asn	Pro	Gly	Ser	Phe	Pro	Trp	Asn	Thr	Thr	Cys	Thr	Phe	Asp	Cys	
				260					265					270			
	Glu	Glu	Gly	Phe	Glu	Leu	Met	Gly	Ala	Gln	Ser	Leu	Gln	Cys	Thr	Ser	
			275					280					285				
	Ser	Gly	Asn	Trp	Asp	Asn	Glu	Lys	Pro	Thr	Cys	Lys	Ala	Val	Thr	Cys	
		290				295					300						
	Arg	Ala	Val	Arg	Gln	Pro	Gln	Asn	Gly	Ser	Val	Arg	Cys	Ser	His	Ser	
305						310					315					320	
	Pro	Ala	Gly	Glu	Phe	Thr	Phe	Lys	Ser	Ser	Cys	Asn	Phe	Thr	Cys	Glu	
				325						330					335		
	Glu	Gly	Phe	Met	Leu	Gln	Gly	Pro	Ala	Gln	Val	Glu	Cys	Thr	Thr	Gln	
			340						345				350				
	Gly	Gln	Trp	Thr	Gln	Gln	Ile	Pro	Val	Cys	Glu	Ala	Phe	Gln	Cys	Thr	
		355						360				365					
	Ala	Leu	Ser	Asn	Pro	Glu	Arg	Gly	Tyr	Met	Asn	Cys	Leu	Pro	Ser	Ala	
		370				375					380						
	Ser	Gly	Ser	Phe	Arg	Tyr	Gly	Ser	Ser	Cys	Glu	Phe	Ser	Cys	Glu	Gln	
385					390					395					400		
	Gly	Phe	Val	Leu	Lys	Gly	Ser	Lys	Arg	Leu	Gln	Cys	Gly	Pro	Thr	Gly	
				405					410					415			
	Glu	Trp	Asp	Asn	Glu	Lys	Pro	Thr	Cys	Glu	Ala	Val	Arg	Cys	Asp	Ala	
			420						425				430				
	Val	His	Gln	Pro	Pro	Lys	Gly	Leu	Val	Arg	Cys	Ala	His	Ser	Pro	Ile	
		435					440				445						
	Gly	Glu	Phe	Thr	Tyr	Lys	Ser	Ser	Cys	Ala	Phe	Ser	Cys	Glu	Glu	Gly	
		450				455				460							
	Phe	Glu	Leu	Tyr	Gly	Ser	Thr	Gln	Leu	Glu	Cys	Thr	Ser	Gln	Gly	Gln	
465					470					475					480		
	Trp	Thr	Glu	Glu	Val	Pro	Ser	Cys	Gln	Val	Val	Lys	Cys	Ser	Ser	Leu	
				485					490					495			
	Ala	Val	Pro	Gly	Lys	Ile	Asn	Met	Ser	Cys	Ser	Gly	Glu	Pro	Val	Phe	
			500						505				510				
	Gly	Thr	Val	Cys	Lys	Phe	Ala	Cys	Pro	Glu	Gly	Trp	Thr	Leu	Asn	Gly	
		515					520					525					
	Ser	Ala	Ala	Arg	Thr	Cys	Gly	Ala	Thr	Gly	His	Trp	Ser	Gly	Leu	Leu	
		530				535				540							
	Pro	Thr	Cys	Glu	Ala	Pro	Thr	Glu	Ser	Asn	Ile	Pro	Leu	Val	Ala	Gly	
545					550					555					560		
	Leu	Ser	Ala	Ala	Gly	Leu	Ser	Leu	Leu	Thr	Leu	Ala	Pro	Phe	Leu	Leu	
				565					570					575			
	Trp	Leu	Arg	Lys	Cys	Leu	Arg	Lys	Ala	Lys	Lys	Phe	Val	Pro	Ala	Ser	
			580					585				590					
	Ser	Cys	Gln	Ser	Leu	Glu	Ser	Asp	Gly	Ser	Tyr	Gln	Lys	Pro	Ser	Tyr	
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	Ile	Leu															
		610															

<210> 3

<211> 412

<212> PRT

<213> Homo sapiens

<400> 3

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Met Pro Leu Gln Leu Leu Leu Leu Leu Ile Leu Leu Gly Pro Gly Asn
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20      25      30
Gly Pro Leu Leu Ala Arg Asp Arg Arg Gln Ala Thr Glu Tyr Glu Tyr
35      40      45
Leu Asp Tyr Asp Phe Leu Pro Glu Thr Glu Pro Pro Glu Met Leu Arg
50      55      60
Asn Ser Thr Asp Thr Thr Pro Leu Thr Gly Pro Gly Thr Pro Glu Ser
65      70      75      80
Thr Thr Val Glu Pro Ala Ala Arg Arg Ser Thr Gly Leu Asp Ala Gly
85      90      95
Gly Ala Val Thr Glu Leu Thr Thr Glu Leu Ala Asn Met Gly Asn Leu
100     105     110
Ser Thr Asp Ser Ala Ala Met Glu Ile Gln Thr Thr Gln Pro Ala Ala
115     120     125
Thr Glu Ala Gln Thr Thr Gln Pro Val Pro Thr Glu Ala Gln Thr Thr
130     135     140
Pro Leu Ala Ala Thr Glu Ala Gln Thr Thr Arg Leu Thr Ala Thr Glu
145     150     155     160
Ala Gln Thr Thr Pro Leu Ala Ala Thr Glu Ala Gln Thr Thr Pro Pro
165     170     175
Ala Ala Thr Glu Ala Gln Thr Thr Gln Pro Thr Gly Leu Glu Ala Gln
180     185     190
Thr Thr Ala Pro Ala Ala Met Glu Ala Gln Thr Thr Ala Pro Ala Ala
195     200     205
Met Glu Ala Gln Thr Thr Pro Pro Ala Ala Met Glu Ala Gln Thr Thr
210     215     220
Gln Thr Thr Ala Met Glu Ala Gln Thr Thr Ala Pro Glu Ala Thr Glu
225     230     235     240
Ala Gln Thr Thr Gln Pro Thr Ala Thr Glu Ala Gln Thr Thr Pro Leu
245     250     255
Ala Ala Met Glu Ala Leu Ser Thr Glu Pro Ser Ala Thr Glu Ala Leu
260     265     270
Ser Met Glu Pro Thr Thr Lys Arg Gly Leu Phe Ile Pro Phe Ser Val
275     280     285
Ser Ser Val Thr His Lys Gly Ile Pro Met Ala Ala Ser Asn Leu Ser
290     295     300
Val Asn Tyr Pro Val Gly Ala Pro Asp His Ile Ser Val Lys Gln Cys
305     310     315     320
Leu Leu Ala Ile Leu Ile Leu Ala Leu Val Ala Thr Ile Phe Phe Val
325     330     335
Cys Thr Val Val Leu Ala Val Arg Leu Ser Arg Lys Gly His Met Tyr
340     345     350
Pro Val Arg Asn Tyr Ser Pro Thr Glu Met Val Cys Ile Ser Ser Leu
355     360     365
Leu Pro Asp Gly Gly Glu Gly Pro Ser Ala Thr Ala Asn Gly Gly Leu
370     375     380
Ser Lys Ala Lys Ser Pro Gly Leu Thr Pro Glu Pro Arg Glu Asp Arg
385     390     395     400
Glu Gly Asp Asp Leu Thr Leu His Ser Phe Leu Pro
405     410

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<211> 5

<212> PRT

<213> Homo sapiens

<400> 4

Asp Asp Asp Asp Lys
1 5

<210> 5

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetically generated peptide

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Glu	Pro	Pro	Arg	Pro	Met	Met	Asp	Asp	Asp	Asp	Lys				
			20					25							